

Abstract Submitted
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Challenging Entropic Gravity JONATHAN ROVETO, California State University - Fresno — A recent proposal by Erik Verlinde claims that gravity should be viewed not as a fundamental force, but an emergent thermodynamic phenomenon due to some yet undetermined microscopic theory. We present a challenge to this reformulation of gravity. Our claim is that a detailed derivation using Verlinde's proposed theory fails to correctly give Newton's laws or Einstein gravity.

Jonathan Roveto
California State University - Fresno

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